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<170> PatentIn Ver. 2.1

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 gagcagacag gatgaggatt ag 4642

<210> 13

<211> 4353

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pSYNGP3-codon
 optimised HIV-1 gagpol with leader sequence from
 the major splice donor

<400> 13

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<210> 14

<211> 4327

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: pSYNGP4-codon
optimised HIV-1 gagpol with 20bp of the leader
sequence of HIV-1

<400> 14

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 ggattag 4327

<210> 15

<211> 22

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Illustrative
helix II sequence

<400> 15

cugaugaggc cgaaaggccg aa

22

<210> 16

<211> 22

<212> RNA

<213> Human immunodeficiency virus type 1

09936572-121101

<400> 16
 uaguaagaau guauagcccu ac 22

<210> 17
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 17
 aaccagauu guaagacuau uu 22

<210> 18
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 18
 uguuucuuu guggcaaaga ag 22

<210> 19
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 19
 aaaaagggcu guuggaaaug ug 22

<210> 20
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 20
 acgaccccuc gucacaauaa ag 22

<210> 21
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 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 21
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<210> 22
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 22
 auauuuuua guucccuag au 22

09036572.121101

<210> 23
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

 <400> 23
 uggaugauuu guauguagga uc 22

 <210> 24
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

 <400> 24
 cuuuggaugg guuaugaacu cc 22

 <210> 25
 <211> 22
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 <213> Human immunodeficiency virus type 1

 <400> 25
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 <210> 26
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 <213> Human immunodeficiency virus type 1

 <400> 26
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 <210> 27
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

 <400> 27
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 <210> 28
 <211> 22
 <212> RNA
 <213> Human immunodeficiency virus type 1

 <400> 28
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 <210> 29
 <211> 30
 <212> DNA
 <213> Artificial Sequence

09936572.124104

<220>

<223> Description of Artificial Sequence: Primer

<400> 29

cagctgctcg agcagctgaa gcttgcatgc

30

<210> 30

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 30

gtaagttatg taacggacga tatcttgtct tctt

34

<210> 31

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 31

cgcatagtcg acgggcccgc cactgctaga gattttc

37

<210> 32

<211> 116

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32

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aaatggtggc agtagaagga ttcgaacctt cgaagtcgat gacgtcatcc ccgggc 116

<210> 33

<211> 110

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 33

tcgaggtcga ctggtggaac tggaaggatt cgaaccttcg aagtcgatga cgttcctaaa 60
aaatggtgaa tcatgaagga ttcgaacctt cgaagtcgat gacgtaatac 110

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<210> 34
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 34
 tcgaggtcga ctggtgggcc ccgaaggatt cgaaccttcg aagtcgatga cgtggaaaaa 60
 aaatggtggg aagagaagga ttcgaacctt cgaagtcgat gacgttggcc 110

<210> 35
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 35
 tcgaggtcga ctggtgacag cagaaggatt cgaaccttcg aagtcgatga cgttcagaaa 60
 aaatggtgaa gcaagaagga ttcgaacctt cgaagtcgat gacgtagccc 110

<210> 36
 <211> 110
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 36
 tcgaggtcga ctggtgtaag aagaaggatt cgaaccttcg aagtcgatga cgttataaaa 60
 aaatggtgac cggtgaagga ttcgaacctt cgaagtcgat gacgttatac 110

<210> 37
 <211> 116
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 37
 tcgaggcatg cgtcgactgg tgggcctaga aggattcgaa ccttcgaagt cgatgacgtg 60
 cacaaaaaat ggtgaactac gaaggattcg aaccttcgaa gtcgatgacg tgtacc 116

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<210> 38
 <211> 12
 <212> DNA
 <213> Human immunodeficiency virus type 1

<400> 38
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<210> 39
 <211> 12
 <212> DNA
 <213> Human immunodeficiency virus type 1

<400> 39
 gatgaggatt ag 12

<210> 40
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 gagpol-SYNgp-codon optimised gagpol sequence

<400> 40
 atgggcgcc gc 12

<210> 41
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 gagpol-SYNgp-codon optimised gagpol sequence

<400> 41
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<210> 42
 <211> 12
 <212> DNA
 <213> Human immunodeficiency virus type 1

<400> 42
 atgagagtga ag 12

<210> 43
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<400> 43
gctttgctat aa 12

<210> 44
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
SYNgp-160nm-codon optimised env sequence

<400> 44
atgagggtga ag 12

<210> 45
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
SYNgp-160nm-codon optimised env sequence

<400> 45
gcgctgctgt aa 12

<210> 46
<211> 34
<212> RNA
<213> Human immunodeficiency virus type 1

<400> 46
ggcucgaacu ugucgugguu aucguggaug uguc 34

<210> 47
<211> 63
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: EGS based on
Tyrosol t-RNA

<400> 47
cgauagcaga cucuaaaucu gccgucaucg acuucgaagg uucgaauccu ucccaggaca 60
cca 63

<210> 48
<211> 66
<212> RNA
<213> Artificial Sequence

0993652-12101

<220>
 <223> Description of Artificial Sequence: Consensus EGS
 sequence

<220>
 <221> modified_base
 <222> (1)..(7)
 <223> Any nucleotide

<220>
 <221> modified_base
 <222> (56)..(61)
 <223> Any nucleotide

<400> 48
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<210> 49
 <211> 49
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Consensus EGS
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<220>
 <221> modified_base
 <222> (1)..(7)
 <223> Any nucleotide

<220>
 <221> modified_base
 <222> (39)..(44)
 <223> Any nucleotide

<400> 49
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<210> 50
 <211> 13
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 50
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<210> 51
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 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 51
 gaacuacuag uac 13

09036572.121101

<210> 52
 <211> 13
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 52
 guaagaaugu aua 13

<210> 53
 <211> 13
 <212> RNA
 <213> Human immunodeficiency virus type 1

<400> 53
 gaccgguucu aua 13

<210> 54
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<400> 54
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<210> 55
 <211> 13
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<400> 55
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<210> 56
 <211> 13
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 <213> Human immunodeficiency virus type 1

<400> 56
 gggcccuag gaa 13

<210> 57
 <211> 13
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<400> 57
 gggaagaucu ggc 13

<210> 58
 <211> 13

09936572-121101

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<212> RNA
<213> Human immunodeficiency virus type 1

<400> 58
ggaacuguau ccu
13

<210> 59
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<400> 59
gaaucuauga aua
13

<210> 60
<211> 13
<212> RNA
<213> Human immunodeficiency virus type 1

<400> 60
ggacagguaa gag
13

<210> 61
<211> 13
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<213> Human immunodeficiency virus type 1

<400> 61
ggcagauauc auc
13

<210> 62
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Combined DNA/RNA Molecule: Anti-HIV
EGS construct

<220>
<223> Description of Artificial Sequence: Anti-HIV EGS
construct

<400> 62
gtgcacguca ucgacuucga agguucgaau ccuucuaggc ccacca
46

<210> 63
<211> 46
<212> DNA
<213> Artificial Sequence

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<220>
 <223> Description of Combined DNA/RNA Molecule: Anti-HIV
 EGS construct

<220>
 <223> Description of Artificial Sequence: Anti-HIV EGS
 construct

<400> 63
 gtacacguca ucgacuucga agguucgaau ccuucguagu ucacca 46

<210> 64
 <211> 46
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Anti-HIV EGS
 construct

<400> 64
 uauaacguca ucgacuucga agguucgaau ccuucuucuu acacca 46

<210> 65
 <211> 46
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Anti-HIV EGS
 construct

<400> 65
 uauaacguca ucgacuucga agguucgaau ccuucaccgg ucacca 46

<210> 66
 <211> 46
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Anti-HIV EGS
 construct

<400> 66
 cugaacguca ucgacuucga agguucgaau ccuucugcug ucacca 46

<210> 67
 <211> 46
 <212> RNA
 <213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Anti-HIV EGS
construct

<400> 67

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46

<210> 68

<211> 46

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule: Anti-HIV
EGS construct

<220>

<223> Description of Artificial Sequence: Anti-HIV EGS
construct

<400> 68

ttccacguca ucgacuucga agguucgaau ccuucggggc ccacca

46

<210> 69

<211> 46

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Anti-HIV EGS
construct

<400> 69

gccaacguca ucgacuucga agguucgaau ccuucucuuc ccacca

46

<210> 70

<211> 46

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Anti-HIV EGS
construct

<400> 70

aggaacguca ucgacuucga agguucgaau ccuuccaguu ccacca

46

<210> 71

<211> 46

<212> RNA

<213> Artificial Sequence

T01121"259550

<223> Description of Artificial Sequence: Anti-HIV EGS construct

uauuacguca ucgacuucga agguucgaau ccuucuagau ucacca

46

<211> 46

<212> RNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Anti-HIV EGS construct

cucuacguca ucgacuucga agguucgaau ccuucccugu ccacca

46

<211> 46

<212> RNA

<213> Artificial Sequence

<223> Description of Artificial Sequence: Anti-HIV EGS construct

gaugacguca ucgacuucga agguucgaau ccuucuacug ccacca

46